



FCC RF Test Report

APPLICANT : Sierra Wireless, Inc.
EQUIPMENT : Wireless Module
BRAND NAME : AirPrime
MODEL NAME : EM7690
FCC ID : N7NEM76
STANDARD : 47 CFR Part 2, 27(M)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jun. 30, 2020 and completely tested on Jul. 18, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG021501-03D	Rev. 01	Initial issue of report	Sep. 16, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	$< 55 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 24.70 dB at 10741.36 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Sierra Wireless, Inc.
13811 Wireless Way, Richmond, BC, Canada V6A 3A4

1.2 Manufacturer

Sierra Wireless, Inc.
13811 Wireless Way, Richmond, BC, Canada V6A 3A4

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Module
Brand Name	AirPrime
Model Name	EM7690
FCC ID	N7NEM76
EUT supports Radios application	WCDMA/LTE/GNSS
IMEI Code	Radiation: 352175380000030
HW Version	1.0
SW Version	SWIX55C_00.16.04.00
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Rx Frequency	LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Antenna Gain	LTE Band 7 : 4.00 dBi LTE Band 38 : 4.00 dBi LTE Band 41 : 4.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Remark: LTE band 41 supports HPUE



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Re-use of Measured Data

1.7.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: EM7690, FCC ID: N7NEM76) is electrically identical to the reference device (Model: EM9190, FCC ID: N7NEM91) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.7.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix C (Sporton RF Report No. FG021501D for the reference device Model: EM9190, FCC ID: N7NEM91).

1.7.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE (LTE)	N7NEM91	Part27(M) (FG021501D)	All Conducted sections applicable

1.7.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: N7NEM91.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	N7NEM91 Worst Result	N7NEM76 Worst Result	Difference (dB)
Average Conducted Power (dBm)	LTE Band 7	23.40	22.66	-0.74
	LTE Band 38	23.40	22.4	-1.00
	LTE Band 41	25.23	24.31	-0.92

1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

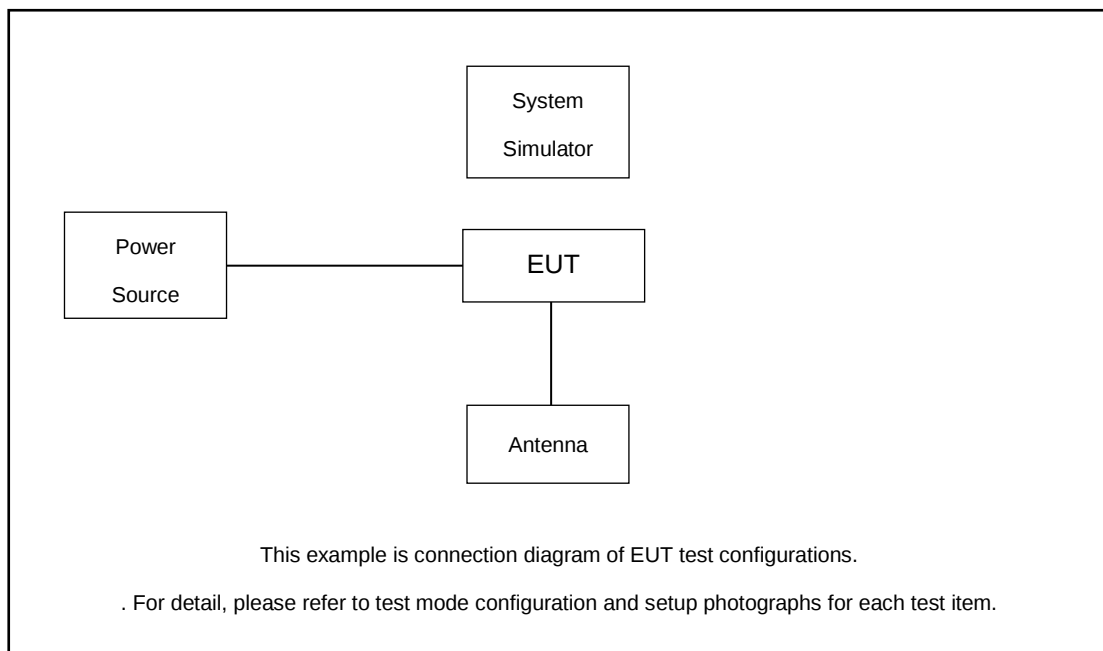
Antenna port radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	7	-	-	v	v	v	v	v			v			v	v	v
	38	-	-	v	v	v	v	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	7C_CA	v					-	-			-	v			v			v	v	v
	38C_CA	v	-	-	-	-	-	-		-	-	v			v			v	v	v
	41C_CA	v										v			v			v	v	v
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5



LTE Band 7C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 38C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

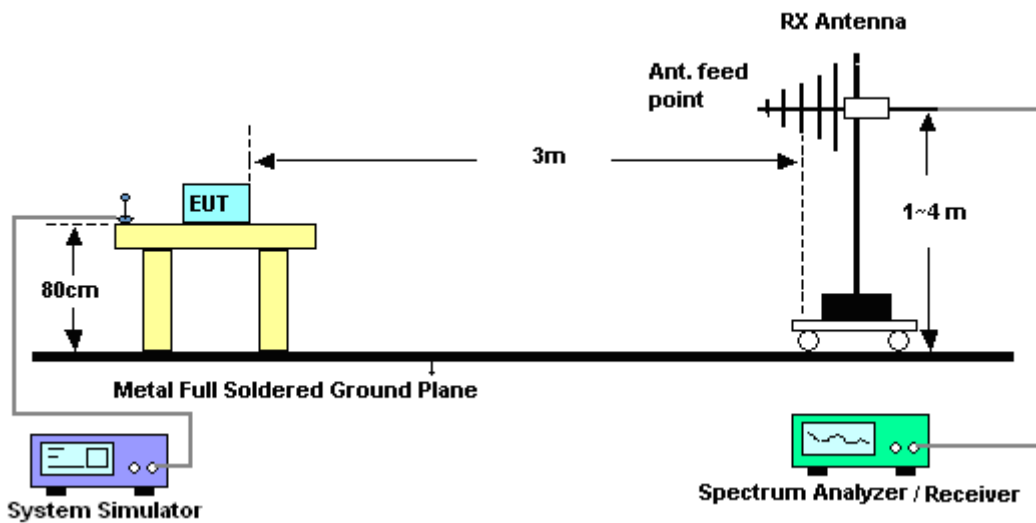
3 Radiated Test Items

3.1 Measuring Instruments

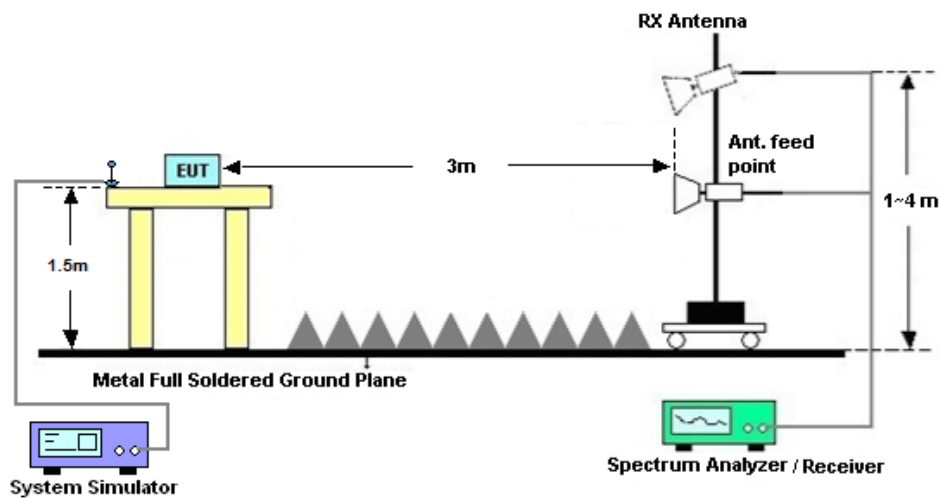
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 For radiated test from 30MHz to 1GHz



3.2.2 For radiated test above 1GHz



3.3 Test Result of Radiated Test

Please refer to Appendix A.

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 22, 2019	Jul. 11, 2020~ Jul. 18, 2020	Jul. 21, 2020	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 17, 2020	Jul. 11, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May. 28, 2020	Jul. 11, 2020~ Jul. 18, 2020	May. 27, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 19, 2019	Jul. 11, 2020~ Jul. 18, 2020	Jul. 18, 2020	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Aug. 27, 2019	Jul. 11, 2020~ Jul. 18, 2020	Aug. 26, 2020	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 17, 2020	Jul. 11, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2020	Jul. 11, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 18, 2019	Jul. 11, 2020~ Jul. 18, 2020	Oct. 17, 2020	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 27, 2019	Jul. 11, 2020~ Jul. 18, 2020	Dec. 26, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 22, 2019	Jul. 11, 2020~ Jul. 18, 2020	Jul. 21, 2020	Radiation (03CH01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 7 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5000.68	-59.35	-25	-34.35	-81.50	-64.91	7.12	12.68	H
	7501.02	-55.71	-25	-30.71	-81.71	-59.04	8.26	11.59	H
	10001.36	-54.56	-25	-29.56	-83.75	-56.09	10.45	11.98	H
	5000.68	-57.46	-25	-32.46	-81.29	-63.02	7.12	12.68	V
	7501.02	-55.70	-25	-30.70	-81.69	-59.03	8.26	11.59	V
	10001.36	-53.73	-25	-28.73	-83.5	-55.26	10.45	11.98	V
Middle	5065.68	-58.63	-25	-33.63	-81.26	-64.19	7.14	12.70	H
	7598.52	-56.15	-25	-31.15	-81.76	-59.45	8.30	11.60	H
	10131.36	-53.56	-25	-28.56	-82.93	-55.08	10.48	12.00	H
	5065.68	-57.33	-25	-32.33	-81.17	-62.89	7.14	12.70	V
	7598.52	-55.66	-25	-30.66	-81.27	-58.96	8.30	11.60	V
	10131.36	-52.91	-25	-27.91	-83.33	-54.43	10.48	12.00	V
Highest	5130.68	-58.16	-25	-33.16	-81.28	-63.72	7.16	12.72	H
	7696.02	-56.35	-25	-31.35	-81.68	-59.65	8.33	11.63	H
	10261.36	-54.09	-25	-29.09	-83.63	-55.69	10.50	12.10	H
	5130.68	-57.80	-25	-32.80	-81.66	-63.36	7.16	12.72	V
	7696.02	-54.33	-25	-29.33	-81.71	-57.63	8.33	11.63	V
	10261.36	-52.79	-25	-27.79	-83.84	-54.39	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5001.18	-59.04	-25	-34.04	-81.19	-64.60	7.12	12.68	H
	7501.77	-55.16	-25	-30.16	-81.16	-58.49	8.26	11.59	H
	10002.36	-54.29	-25	-29.29	-83.51	-55.82	10.45	11.98	H
	5001.18	-57.69	-25	-32.69	-81.52	-63.25	7.12	12.68	V
	7501.77	-55.80	-25	-30.80	-81.79	-59.13	8.26	11.59	V
	10002.36	-53.18	-25	-28.18	-83.04	-54.71	10.45	11.98	V
Middle	5061.18	-58.83	-25	-33.83	-81.46	-64.39	7.14	12.70	H
	7591.77	-56.08	-25	-31.08	-81.69	-59.38	8.30	11.60	H
	10122.36	-53.68	-25	-28.68	-83.05	-55.20	10.48	12.00	H
	5061.18	-57.42	-25	-32.42	-81.26	-62.98	7.14	12.70	V
	7591.77	-56.31	-25	-31.31	-81.92	-59.61	8.30	11.60	V
	10122.36	-52.51	-25	-27.51	-82.93	-54.03	10.48	12.00	V
Highest	5121.18	-58.43	-25	-33.43	-81.43	-63.99	7.16	12.72	H
	7681.77	-56.15	-25	-31.15	-81.53	-59.45	8.33	11.63	H
	10242.36	-53.87	-25	-28.87	-83.40	-55.47	10.50	12.10	H
	5121.18	-57.83	-25	-32.83	-81.68	-63.39	7.16	12.72	V
	7681.77	-54.39	-25	-29.39	-81.48	-57.69	8.33	11.63	V
	10242.36	-52.53	-25	-27.53	-83.51	-54.13	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5001.68	-59.27	-25	-34.27	-81.42	-64.83	7.12	12.68	H
	7502.52	-55.23	-25	-30.23	-81.17	-58.56	8.26	11.59	H
	10003.36	-54.18	-25	-29.18	-83.40	-55.71	10.45	11.98	H
	5001.68	-57.85	-25	-32.85	-81.68	-63.41	7.12	12.68	V
	7502.52	-55.71	-25	-30.71	-81.64	-59.04	8.26	11.59	V
	10003.36	-53.36	-25	-28.36	-83.22	-54.89	10.45	11.98	V
Middle	5056.68	-58.82	-25	-33.82	-81.45	-64.38	7.14	12.70	H
	7585.02	-56.18	-25	-31.18	-81.86	-59.48	8.30	11.60	H
	10113.36	-53.94	-25	-28.94	-83.29	-55.46	10.48	12.00	H
	5056.68	-57.44	-25	-32.44	-81.28	-63.00	7.14	12.70	V
	7585.02	-55.77	-25	-30.77	-81.45	-59.07	8.30	11.60	V
	10113.36	-52.81	-25	-27.81	-83.14	-54.33	10.48	12.00	V
Highest	5111.68	-58.56	-25	-33.56	-81.56	-64.12	7.16	12.72	H
	7667.52	-55.94	-25	-30.94	-81.37	-59.24	8.33	11.63	H
	10223.36	-54.27	-25	-29.27	-83.77	-55.87	10.50	12.10	H
	5111.68	-57.59	-25	-32.59	-81.44	-63.15	7.16	12.72	V
	7667.52	-54.09	-25	-29.09	-80.89	-57.39	8.33	11.63	V
	10223.36	-52.77	-25	-27.77	-83.67	-54.37	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5002.18	-59.39	-25	-34.39	-81.54	-64.95	7.12	12.68	H
	7503.27	-55.69	-25	-30.69	-81.63	-59.02	8.26	11.59	H
	10004.36	-54.18	-25	-29.18	-83.40	-55.71	10.45	11.98	H
	5002.18	-57.85	-25	-32.85	-81.68	-63.41	7.12	12.68	V
	7503.27	-55.65	-25	-30.65	-81.58	-58.98	8.26	11.59	V
	10004.36	-53.29	-25	-28.29	-83.15	-54.82	10.45	11.98	V
Middle	5052.18	-58.86	-25	-33.86	-81.37	-64.42	7.14	12.70	H
	7578.27	-55.89	-25	-30.89	-81.57	-59.19	8.30	11.60	H
	10104.36	-54.49	-25	-29.49	-83.84	-56.01	10.48	12.00	H
	5052.18	-56.64	-25	-31.64	-80.48	-62.20	7.14	12.70	V
	7578.27	-56.14	-25	-31.14	-81.82	-59.44	8.30	11.60	V
	10104.36	-53.50	-25	-28.50	-83.83	-55.02	10.48	12.00	V
Highest	5102.18	-58.95	-25	-33.95	-81.82	-64.51	7.16	12.72	H
	7653.27	-56.17	-25	-31.17	-81.64	-59.47	8.33	11.63	H
	10204.36	-54.43	-25	-29.43	-83.89	-56.03	10.50	12.10	H
	5102.18	-57.59	-25	-32.59	-81.44	-63.15	7.16	12.72	V
	7653.27	-54.72	-25	-29.72	-81.22	-58.02	8.33	11.63	V
	10204.36	-53.03	-25	-28.03	-83.76	-54.63	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5140.50	-58.17	-25	-33.17	-81.41	-63.73	7.12	12.68	H
	7710.75	-56.52	-25	-31.52	-81.81	-59.85	8.26	11.59	H
	10281.00	-54.15	-25	-29.15	-83.71	-55.68	10.45	11.98	H
	5140.50	-57.69	-25	-32.69	-81.55	-63.25	7.12	12.68	V
	7710.75	-53.93	-25	-28.93	-81.61	-57.26	8.26	11.59	V
	10281.00	-52.49	-25	-27.49	-83.62	-54.02	10.45	11.98	V
Middle	5185.50	-58.03	-25	-33.03	-81.51	-63.59	7.14	12.70	H
	7778.25	-56.16	-25	-31.16	-81.25	-59.46	8.30	11.60	H
	10371.00	-53.69	-25	-28.69	-83.36	-55.21	10.48	12.00	H
	5185.50	-57.67	-25	-32.67	-81.54	-63.23	7.14	12.70	V
	7778.25	-52.37	-25	-27.37	-81.23	-55.67	8.30	11.60	V
	10371.00	-51.95	-25	-26.95	-83.48	-53.47	10.48	12.00	V
Highest	5230.50	-57.70	-25	-32.70	-81.42	-63.26	7.16	12.72	H
	7845.75	-56.64	-25	-31.64	-81.91	-59.94	8.33	11.63	H
	10461.00	-54.39	-25	-29.39	-84.19	-55.99	10.50	12.10	H
	5230.50	-57.85	-25	-32.85	-81.64	-63.41	7.16	12.72	V
	7845.75	-52.70	-25	-27.70	-81.6	-56.00	8.33	11.63	V
	10461.00	-51.86	-25	-26.86	-83.87	-53.46	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5141.00	-58.13	-25	-33.13	-81.37	-63.69	7.12	12.68	H
	7711.50	-56.20	-25	-31.20	-81.49	-59.53	8.26	11.59	H
	10282.00	-53.77	-25	-28.77	-83.33	-55.30	10.45	11.98	H
	5141.00	-57.37	-25	-32.37	-81.23	-62.93	7.12	12.68	V
	7711.50	-53.65	-25	-28.65	-81.33	-56.98	8.26	11.59	V
	10282.00	-52.44	-25	-27.44	-83.57	-53.97	10.45	11.98	V
Middle	5181.00	-57.91	-25	-32.91	-81.39	-63.47	7.14	12.70	H
	7771.50	-56.03	-25	-31.03	-81.16	-59.33	8.30	11.60	H
	10362.00	-53.82	-25	-28.82	-83.49	-55.34	10.48	12.00	H
	5181.00	-57.78	-25	-32.78	-81.65	-63.34	7.14	12.70	V
	7771.50	-52.52	-25	-27.52	-81.08	-55.82	8.30	11.60	V
	10362.00	-51.73	-25	-26.73	-83.26	-53.25	10.48	12.00	V
Highest	5221.00	-58.11	-25	-33.11	-81.77	-63.67	7.16	12.72	H
	7831.50	-55.73	-25	-30.73	-80.92	-59.03	8.33	11.63	H
	10442.00	-54.12	-25	-29.12	-83.89	-55.72	10.50	12.10	H
	5221.00	-57.65	-25	-32.65	-81.48	-63.21	7.16	12.72	V
	7831.50	-52.57	-25	-27.57	-81.55	-55.87	8.33	11.63	V
	10442.00	-51.60	-25	-26.60	-83.45	-53.20	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5141.50	-58.39	-25	-33.39	-81.63	-63.95	7.12	12.68	H
	7712.25	-56.35	-25	-31.35	-81.64	-59.68	8.26	11.59	H
	10283.00	-54.11	-25	-29.11	-83.67	-55.64	10.45	11.98	H
	5141.50	-57.15	-25	-32.15	-81.01	-62.71	7.12	12.68	V
	7712.25	-53.68	-25	-28.68	-81.36	-57.01	8.26	11.59	V
	10283.00	-52.53	-25	-27.53	-83.66	-54.06	10.45	11.98	V
Middle	5176.50	-58.12	-25	-33.12	-81.60	-63.68	7.14	12.70	H
	7764.75	-56.42	-25	-31.42	-81.56	-59.72	8.30	11.60	H
	10353.00	-53.91	-25	-28.91	-83.56	-55.43	10.48	12.00	H
	5176.50	-57.40	-25	-32.40	-81.27	-62.96	7.14	12.70	V
	7764.75	-52.73	-25	-27.73	-81.3	-56.03	8.30	11.60	V
	10353.00	-52.19	-25	-27.19	-83.64	-53.71	10.48	12.00	V
Highest	5211.50	-57.84	-25	-32.84	-81.50	-63.40	7.16	12.72	H
	7817.25	-56.51	-25	-31.51	-81.63	-59.81	8.33	11.63	H
	10423.00	-54.16	-25	-29.16	-83.90	-55.76	10.50	12.10	H
	5211.50	-57.63	-25	-32.63	-81.46	-63.19	7.16	12.72	V
	7817.25	-52.55	-25	-27.55	-81.62	-55.85	8.33	11.63	V
	10423.00	-51.95	-25	-26.95	-83.72	-53.55	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5142.00	-58.32	-25	-33.32	-81.56	-63.88	7.12	12.68	H
	7713.00	-56.21	-25	-31.21	-81.50	-59.54	8.26	11.59	H
	10284.00	-53.74	-25	-28.74	-83.30	-55.27	10.45	11.98	H
	5142.00	-57.61	-25	-32.61	-81.47	-63.17	7.12	12.68	V
	7713.00	-53.84	-25	-28.84	-81.52	-57.17	8.26	11.59	V
	10284.00	-52.31	-25	-27.31	-83.44	-53.84	10.45	11.98	V
Middle	5172.00	-58.13	-25	-33.13	-81.49	-63.69	7.14	12.70	H
	7758.00	-56.49	-25	-31.49	-81.63	-59.79	8.30	11.60	H
	10344.00	-53.82	-25	-28.82	-83.48	-55.34	10.48	12.00	H
	5172.00	-56.83	-25	-31.83	-80.69	-62.39	7.14	12.70	V
	7758.00	-52.90	-25	-27.90	-81.47	-56.20	8.30	11.60	V
	10344.00	-52.22	-25	-27.22	-83.68	-53.74	10.48	12.00	V
Highest	5202.00	-58.00	-25	-33.00	-81.60	-63.56	7.16	12.72	H
	7803.00	-56.44	-25	-31.44	-81.48	-59.74	8.33	11.63	H
	10404.00	-54.09	-25	-29.09	-83.81	-55.69	10.50	12.10	H
	5202.00	-57.54	-25	-32.54	-81.41	-63.10	7.16	12.72	V
	7803.00	-52.71	-25	-27.71	-81.86	-56.01	8.33	11.63	V
	10404.00	-52.07	-25	-27.07	-83.76	-53.67	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992.68	-59.15	-25	-34.15	-81.30	-64.71	7.12	12.68	H
	7489.02	-55.83	-25	-30.83	-81.84	-59.16	8.26	11.59	H
	9985.36	-54.10	-25	-29.10	-83.27	-55.63	10.45	11.98	H
	4992.68	-57.79	-25	-32.79	-81.62	-63.35	7.12	12.68	V
	7489.02	-55.63	-25	-30.63	-81.63	-58.96	8.26	11.59	V
	9985.36	-53.41	-25	-28.41	-83.16	-54.94	10.45	11.98	V
Middle	5181.68	-57.86	-25	-32.86	-81.34	-63.42	7.14	12.70	H
	7772.52	-56.16	-25	-31.16	-81.29	-59.46	8.30	11.60	H
	10363.36	-53.50	-25	-28.50	-83.17	-55.02	10.48	12.00	H
	5181.68	-57.47	-25	-32.47	-81.34	-63.03	7.14	12.70	V
	7772.52	-52.34	-25	-27.34	-80.9	-55.64	8.30	11.60	V
	10363.36	-51.67	-25	-26.67	-83.2	-53.19	10.48	12.00	V
Highest	5370.68	-56.83	-25	-31.83	-81.03	-62.39	7.16	12.72	H
	8056.02	-55.26	-25	-30.26	-81.11	-58.56	8.33	11.63	H
	10741.36	-52.21	-25	-27.21	-83.10	-53.81	10.50	12.10	H
	5370.68	-55.88	-25	-30.88	-79.42	-61.44	7.16	12.72	V
	8056.02	-53.08	-25	-28.08	-81.38	-56.38	8.33	11.63	V
	10741.36	-49.70	-25	-24.70	-83.12	-51.30	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4993.18	-59.22	-25	-34.22	-81.37	-64.78	7.12	12.68	H
	7489.77	-55.48	-25	-30.48	-81.48	-58.81	8.26	11.59	H
	9986.36	-54.25	-25	-29.25	-83.42	-55.78	10.45	11.98	H
	4993.18	-57.67	-25	-32.67	-81.5	-63.23	7.12	12.68	V
	7489.77	-55.47	-25	-30.47	-81.46	-58.80	8.26	11.59	V
	9986.36	-53.46	-25	-28.46	-83.21	-54.99	10.45	11.98	V
Middle	5177.18	-57.58	-25	-32.58	-81.06	-63.14	7.14	12.70	H
	7765.77	-56.22	-25	-31.22	-81.36	-59.52	8.30	11.60	H
	10354.36	-53.52	-25	-28.52	-83.17	-55.04	10.48	12.00	H
	5177.18	-57.58	-25	-32.58	-81.45	-63.14	7.14	12.70	V
	7765.77	-52.23	-25	-27.23	-80.8	-55.53	8.30	11.60	V
	10354.36	-51.79	-25	-26.79	-83.24	-53.31	10.48	12.00	V
Highest	5361.18	-55.94	-25	-30.94	-80.14	-61.50	7.16	12.72	H
	8041.77	-55.52	-25	-30.52	-81.39	-58.82	8.33	11.63	H
	10722.36	-52.77	-25	-27.77	-83.58	-54.37	10.50	12.10	H
	5361.18	-55.50	-25	-30.50	-79.04	-61.06	7.16	12.72	V
	8041.77	-53.12	-25	-28.12	-81.36	-56.42	8.33	11.63	V
	10722.36	-49.76	-25	-24.76	-83.09	-51.36	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4993.68	-58.96	-25	-33.96	-81.11	-64.52	7.12	12.68	H
	7490.52	-55.07	-25	-30.07	-81.07	-58.40	8.26	11.59	H
	9987.36	-54.32	-25	-29.32	-83.49	-55.85	10.45	11.98	H
	4993.68	-57.62	-25	-32.62	-81.45	-63.18	7.12	12.68	V
	7490.52	-55.62	-25	-30.62	-81.61	-58.95	8.26	11.59	V
	9987.36	-53.70	-25	-28.70	-83.45	-55.23	10.45	11.98	V
Middle	5172.68	-57.65	-25	-32.65	-81.01	-63.21	7.14	12.70	H
	7759.02	-56.24	-25	-31.24	-81.38	-59.54	8.30	11.60	H
	10345.36	-53.44	-25	-28.44	-83.10	-54.96	10.48	12.00	H
	5172.68	-57.29	-25	-32.29	-81.15	-62.85	7.14	12.70	V
	7759.02	-52.90	-25	-27.90	-81.47	-56.20	8.30	11.60	V
	10345.36	-51.51	-25	-26.51	-82.97	-53.03	10.48	12.00	V
Highest	5351.68	-56.72	-25	-31.72	-80.86	-62.28	7.16	12.72	H
	8027.52	-55.43	-25	-30.43	-81.32	-58.73	8.33	11.63	H
	10703.36	-52.79	-25	-27.79	-83.53	-54.39	10.50	12.10	H
	5351.68	-54.90	-25	-29.90	-78.47	-60.46	7.16	12.72	V
	8027.52	-52.72	-25	-27.72	-80.9	-56.02	8.33	11.63	V
	10703.36	-50.18	-25	-25.18	-83.42	-51.78	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4994.18	-59.41	-25	-34.41	-81.56	-64.97	7.12	12.68	H
	7491.27	-55.58	-25	-30.58	-81.58	-58.91	8.26	11.59	H
	9988.36	-54.20	-25	-29.20	-83.37	-55.73	10.45	11.98	H
	4994.18	-57.73	-25	-32.73	-81.56	-63.29	7.12	12.68	V
	7491.27	-55.68	-25	-30.68	-81.67	-59.01	8.26	11.59	V
	9988.36	-53.68	-25	-28.68	-83.43	-55.21	10.45	11.98	V
Middle	5168.18	-57.62	-25	-32.62	-80.98	-63.18	7.14	12.70	H
	7752.27	-55.92	-25	-30.92	-81.10	-59.22	8.30	11.60	H
	10336.36	-53.17	-25	-28.17	-82.80	-54.69	10.48	12.00	H
	5168.18	-57.26	-25	-32.26	-81.12	-62.82	7.14	12.70	V
	7752.27	-52.71	-25	-27.71	-80.98	-56.01	8.30	11.60	V
	10336.36	-51.96	-25	-26.96	-83.34	-53.48	10.48	12.00	V
Highest	5342.18	-57.33	-25	-32.33	-81.41	-62.89	7.16	12.72	H
	8013.27	-55.34	-25	-30.34	-81.22	-58.64	8.33	11.63	H
	10684.36	-52.88	-25	-27.88	-83.54	-54.48	10.50	12.10	H
	5342.18	-54.97	-25	-29.97	-78.57	-60.53	7.16	12.72	V
	8013.27	-53.03	-25	-28.03	-81.2	-56.33	8.33	11.63	V
	10684.36	-50.46	-25	-25.46	-83.61	-52.06	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7C_CA / 20MHz+20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5039.80	-59.02	-25	-34.02	-81.53	-64.58	7.12	12.68	H
	7559.70	-55.32	-25	-30.32	-81.07	-58.65	8.26	11.59	H
	10079.60	-53.76	-25	-28.76	-83.06	-55.29	10.45	11.98	H
	5039.80	-57.37	-25	-32.37	-81.21	-62.93	7.12	12.68	V
	7559.70	-55.80	-25	-30.80	-81.54	-59.13	8.26	11.59	V
	10079.60	-52.62	-25	-27.62	-82.79	-54.15	10.45	11.98	V
Middle	5070.00	-58.67	-25	-33.67	-81.30	-64.23	7.14	12.70	H
	7605.00	-55.90	-25	-30.90	-81.47	-59.20	8.30	11.60	H
	10140.00	-53.01	-25	-28.01	-82.41	-54.53	10.48	12.00	H
	5070.00	-57.34	-25	-32.34	-81.18	-62.90	7.14	12.70	V
	7605.00	-55.64	-25	-30.64	-81.55	-58.94	8.30	11.60	V
	10140.00	-51.91	-25	-26.91	-82.41	-53.43	10.48	12.00	V
Highest	5100.20	-58.35	-25	-33.35	-81.22	-63.91	7.16	12.72	H
	7650.30	-55.49	-25	-30.49	-80.96	-58.79	8.33	11.63	H
	10200.30	-53.62	-25	-28.62	-83.08	-55.22	10.50	12.10	H
	5100.20	-57.39	-25	-32.39	-81.24	-62.95	7.16	12.72	V
	7650.30	-54.06	-25	-29.06	-80.56	-57.36	8.33	11.63	V
	10200.30	-52.20	-25	-27.20	-82.93	-53.80	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38C_CA / 20MHz+20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5179.80	-57.93	-25	-32.93	-81.41	-63.49	7.12	12.68	H
	7769.70	-56.21	-25	-31.21	-81.35	-59.54	8.26	11.59	H
	10359.60	-53.85	-25	-28.85	-83.52	-55.38	10.45	11.98	H
	5179.80	-57.45	-25	-32.45	-81.32	-63.01	7.12	12.68	V
	7769.70	-52.46	-25	-27.46	-81.03	-55.79	8.26	11.59	V
	10359.60	-52.22	-25	-27.22	-83.75	-53.75	10.45	11.98	V
Middle	5190.00	-57.77	-25	-32.77	-81.25	-63.33	7.14	12.70	H
	7785.00	-56.19	-25	-31.19	-81.28	-59.49	8.30	11.60	H
	10380.00	-54.19	-25	-29.19	-83.89	-55.71	10.48	12.00	H
	5190.00	-57.53	-25	-32.53	-81.4	-63.09	7.14	12.70	V
	7785.00	-52.34	-25	-27.34	-81.2	-55.64	8.30	11.60	V
	10380.00	-51.64	-25	-26.64	-83.25	-53.16	10.48	12.00	V
Highest	5200.00	-57.91	-25	-32.91	-81.51	-63.47	7.16	12.72	H
	7800.00	-56.18	-25	-31.18	-81.22	-59.48	8.33	11.63	H
	10400.00	-53.86	-25	-28.86	-83.58	-55.46	10.50	12.10	H
	5200.00	-57.54	-25	-32.54	-81.41	-63.10	7.16	12.72	V
	7800.00	-52.08	-25	-27.08	-81.23	-55.38	8.33	11.63	V
	10400.00	-52.05	-25	-27.05	-83.74	-53.65	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41C_CA / 20MHz+20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5031.80	-58.95	-25	-33.95	-81.34	-64.51	7.12	12.68	H
	7547.70	-55.35	-25	-30.35	-81.16	-58.68	8.26	11.59	H
	10063.60	-53.87	-25	-28.87	-83.15	-55.40	10.45	11.98	H
	5031.80	-57.64	-25	-32.64	-81.48	-63.20	7.12	12.68	V
	7547.70	-55.16	-25	-30.16	-80.96	-58.49	8.26	11.59	V
	10063.60	-52.82	-25	-27.82	-82.91	-54.35	10.45	11.98	V
Middle	5186.00	-57.49	-25	-32.49	-80.97	-63.05	7.14	12.70	H
	7779.00	-56.01	-25	-31.01	-81.10	-59.31	8.30	11.60	H
	10372.00	-53.31	-25	-28.31	-82.98	-54.83	10.48	12.00	H
	5186.00	-57.59	-25	-32.59	-81.46	-63.15	7.14	12.70	V
	7779.00	-52.13	-25	-27.13	-80.99	-55.43	8.30	11.60	V
	10372.00	-51.44	-25	-26.44	-82.97	-52.96	10.48	12.00	V
Highest	5340.00	-57.13	-25	-32.13	-81.21	-62.69	7.16	12.72	H
	8010.30	-55.29	-25	-30.29	-81.19	-58.59	8.33	11.63	H
	10680.40	-52.48	-25	-27.48	-83.06	-54.08	10.50	12.10	H
	5340.00	-55.90	-25	-30.90	-79.5	-61.46	7.16	12.72	V
	8010.30	-53.37	-25	-28.37	-81.48	-56.67	8.33	11.63	V
	10680.40	-50.03	-25	-25.03	-83.09	-51.63	10.50	12.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix C. Reference Report

Please refer to Sporton report number FG021501D which is issued separately.